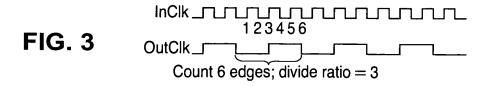


FIG. 2



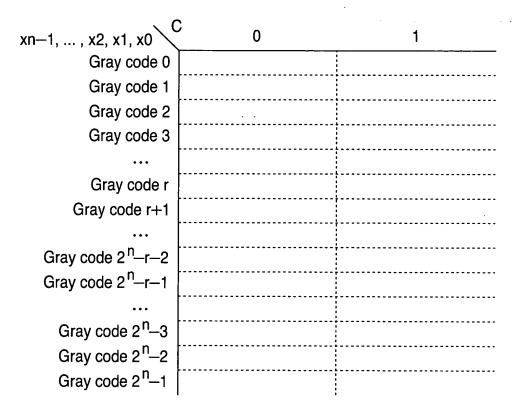


FIG. 4A

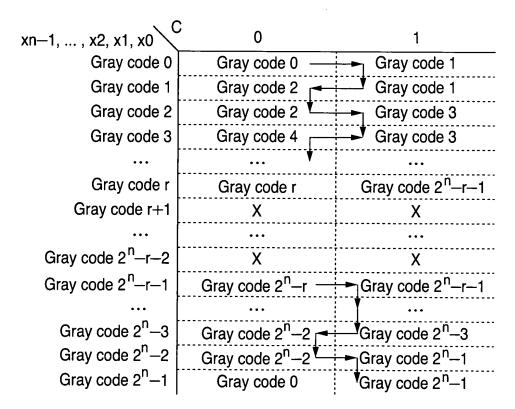


FIG. 4B

xn-1, , x2, x1, x0	0	1				
Gray code 0	Gray code 0	Gray code 1				
Gray code 1	Gray code 2	Gray code 1				
Gray code 2	Gray code 2	Gray code 3				
Gray code 3	Gray code 4	Gray code 3				
•••	•••	•••				
Gray code r	Gray code r	Gray code 2 ⁿ -r-1				
Gray code r+1	Χ	Х				
•••	•••	• • •				
Gray code 2 ⁿ -r-2	Χ	Х				
Gray code 2 ⁿ -r-1	Gray code 2 ⁿ –r	Gray code 2 ⁿ -r-1				
•••	•••	•••				
Gray code 2 ⁿ -3	Gray code 2 ⁿ –2	Gray code 2 ⁿ -3				
Gray code 2 ⁿ –2	Gray code 2 ⁿ -2	Gray code 2 ⁿ –1				
Gray code 2 ⁿ -1	Gray code 0	Gray code 2 ⁿ -1				

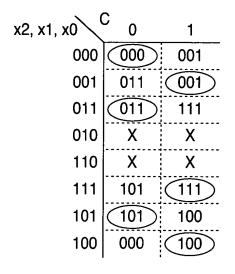
FIG. 4C

xn-1, , x2, x1, x0	S, C 00	01	11	10	
Gray code 0	0	0	X	1	
Gray code 1	0	0	1	1	
Gray code 2	0	0	1	1	
Gray code 3	0	0	1	1	
•••	•••	•••	•••	• • •	
Gray code r	0	0	1	1	
Gray code r+1	Χ	0	Χ	1	
•••	•••	•••	•••	•••	
Gray code 2 ⁿ -r-2	0	0	1	1	
Gray code 2 ⁿ -r-1	0	0	1	1	
•••	•••	•••	•••	• • •	
Gray code 2 ⁿ -3	0	0	1	1	
Gray code 2 ⁿ –2	0	0	1	1	
Gray code 2 ⁿ -1	1	X	1	1	

FIG. 4D

10	Gray code 0	Gray code 0	Gray code 2	Gray code 2	:	Gray code r	Gray code r	•	Gray code r+1	Gray code 2^{n} –r–1	÷	Gray code $2^{n}-3$	Gray code 2 ⁿ -3	Gray code 2 ⁿ -1
Ξ	×	Gray code 1	Gray code 1	Gray code 3	:	Gray code r-1	×	:	Gray code 2^{n} –r–2	Gray code 2 ⁿ -r-2	:	Gray code 2 ⁿ –4	Gray code 2^{n} –2	Gray code 2 ⁿ –2
01	Gray code 1	Gray code 1	Gray code 3	Gray code 3	:	Gray code r+1	Gray code 2 ⁿ -r-2	•	\bigcirc Gray code 2^{n} –r– 2	Gray code 2 ⁿ -r	:	Gray code 2 ⁿ –2	Gray code $2^{n}-2$	×
00 0	Gray code 0	Gray code 2	Gray code 2	Gray code 4	•	Gray code r	×	:	Gray code 2 ⁿ -r-1	Gray code 2 ⁿ -r-1	•	Gray code 2 ⁿ -3	Gray code 2 ⁿ -1	Gray code 2 ⁿ -1
xn-1,, x2, x1, x0 S, C	Gray code 0	Gray code 1	Gray code 2	Gray code 3	:	Gray code r	Gray code r+1	: ,	Gray code 2 ⁿ -r-2	Gray code 2 ⁿ -r-1	:	Gray code 2 ⁿ -3	Gray code 2 ⁿ -2	Gray code 2 ⁿ -1

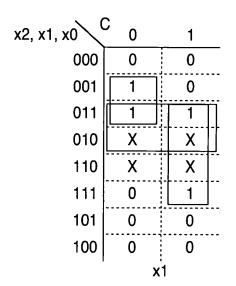
FIG. 4E



x2, x1, x0 Χ X X

FIG. 5A

FIG. 5B



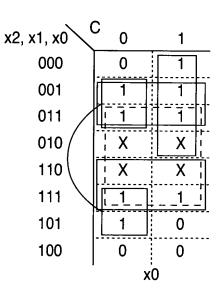


FIG. 5C

FIG. 5D

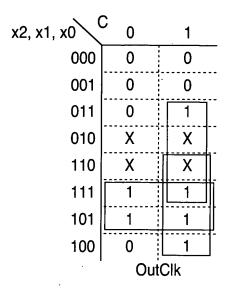


FIG. 5E

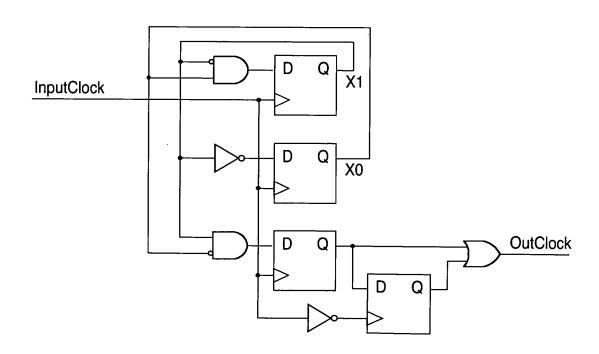


FIG. 6